

Exhibit 5: Estimate of volume of Greenhouse Gas Emissions

EAST BAY REGIONAL PARK DISTRICT									
2950 PERALTA OAKS COURT, OAKLAND, CA 94605									
TEL (510) 635-0135 FAX (510) 382 0539									
PROJECT: BAY TRAIL - WILDCAT CREEK TO SAN PABLO CREEK							SHEET: 1 of 1		
SUBJECT: CONSTRUCTION GREENHOUSE GAS ESTIMATE							BY: GDG		DATE: 9-22-09
CO2 CRITERIA									
FUEL TYPE		POUNDS OF CO2 PER GALLON							
DIESEL		22.4							
GASOLINE		19.5							
FUEL CONSUMPTION ASSUMPTIONS									
TRACTOR-TRAILER HAULING		6		MPG DIESEL					
CONSTRUCTION DELIVERY TRUCK		10		MPG DIESEL					
CONCRETE DELIVERY TRUCK		3		MPG DIESEL					
HEAVY EQUIPMENT - EARTHWORK, ETC		40		GALLONS DIESEL PER DAY					
GENERAL CONSTRUCTION TRUCK		10		GALLONS DIESEL PER DAY					
MATERIAL DELIVERY DISTANCE		20		MILES EACH WAY					
CONSTRUCTION MATERIAL QUANTITIES									
IMPORT FILL		915		TONS					
BASE ROCK (AB)		1,095		TONS					
AC PAVING		30		TONS					
DRAIN ROCK		100		TONS					
DEMO FENCING (8' HIGH)		4,200		LF					
6' CHAIN-LINK FENCE		4,700		LF					
6-STRAND WIRE FENCE		4,200		LF					
PRECAST CONCRETE		22		CY					
CAST-IN-PLACE CONCRETE		20		CY					
FUEL CONSUMPTION FOR CONSTRUCTION ACTIVITIES									
MATERIALS DELIVERY									
MATERIAL	UNITS	TOTAL	EACH TRUCK	NO. TRIPS	MILES/ TRIP	MILES	MPG	GALLONS DIESEL	
BASE ROCK & FILL	TONS	2,010	20	101	40	4,040	6	673	
AC	TONS	30	20	2	40	80	6	13	
DRAIN ROCK	TONS	100	20	5	40	200	6	33	
DEMO FENCE	LF	4,200	1000	5	40	200	10	20	
NEW CL FENCE	LF	4,700	2000	3	40	120	10	12	
NEW WIRE FENCE	LF	4,200	4000	2	40	80	10	8	
SITE CONCRETE	CY	22	9	3	40	120	3	40	
PRECAST CONC	CY	20	9	3	40	120	3	40	
TOTAL DIESEL FUEL CONSUMED FOR MATERIALS DELIVERY:								840	
CONSTRUCTION									
ACTIVITY		NO. VEHICLES	NO. DAYS	GALLONS PER DAY	GALLONS DIESEL				
DEMOLITION & CLEARING		1	4	10	40				
CHAIN-LINK FENCE		2	4	10	80				
WIRE FENCE		1	2	10	20				
LANDSCAPING		1	5	10	50				
GRADING & COMPACTING AB		1	10	40	400				
SPREADING AC		1	1	40	40				
CULVERT CROSSING		1	4	40	160				
TOTAL GASOLINE FUEL CONSUMED CONSTRUCTION VEHICLES:								790	
PROJECT TOTALS									
FUEL TYPE	GALLONS OF FUEL	POUNDS OF CO2							
DIESEL	1,630	36,512							
GASOLINE	0	0							
TOTAL CO2 FROM CONSTRUCTION:		36,512 POUNDS		=		16.6		METRIC TONS	
BAAMQD MINIMUM THRESHOLD OF CEQA PROJECT SIGNIFICANCE = 1,100 METRIC TONS									
THIS PROJECT =		1.51		PERCENT OF THRESHOLD					